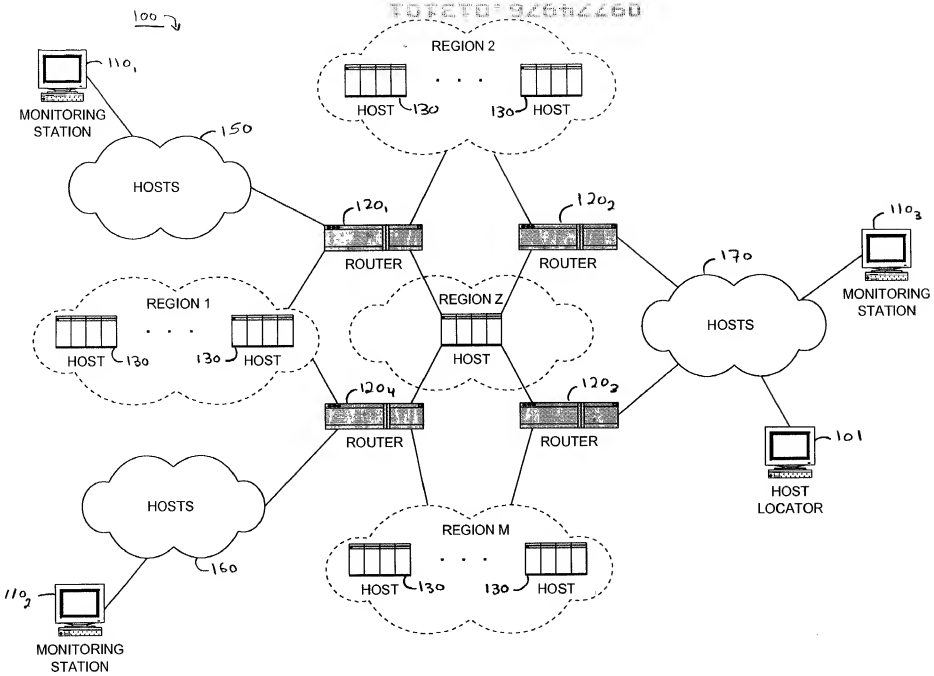
100
MONITORING STATION
110₁
HOSTS
150
REGION 2
HOST
130
HOST
ROUTER
120₁
ROUTER
120₂
110₃
MONITORING STATION
170
HOSTS
REGION 1
HOST
HOST
REGION Z
HOST
ROUTER
120₄
ROUTER
120₃
101
HOST LOCATOR
HOSTS
160
REGION M
HOST
HOST
110₂
MONITORING STATION

FIGURE 1

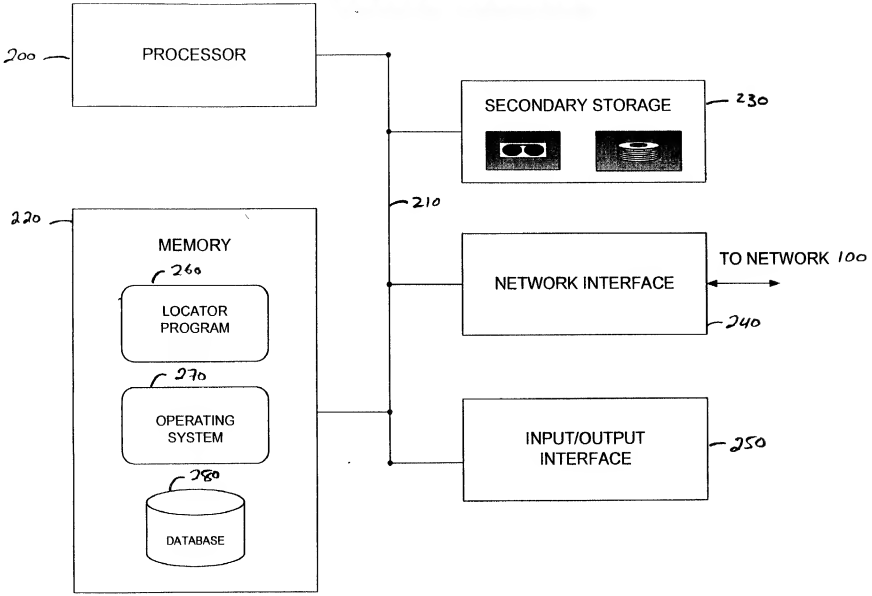
PROCESSOR
200
SECONDARY STORAGE
230
210
220
MEMORY
260
LOCATOR PROGRAM
270
OPERATING SYSTEM
280
DATABASE
NETWORK INTERFACE
TO NETWORK 100
240
INPUT/OUTPUT INTERFACE
250

FIGURE 2

PCT/US97/07760

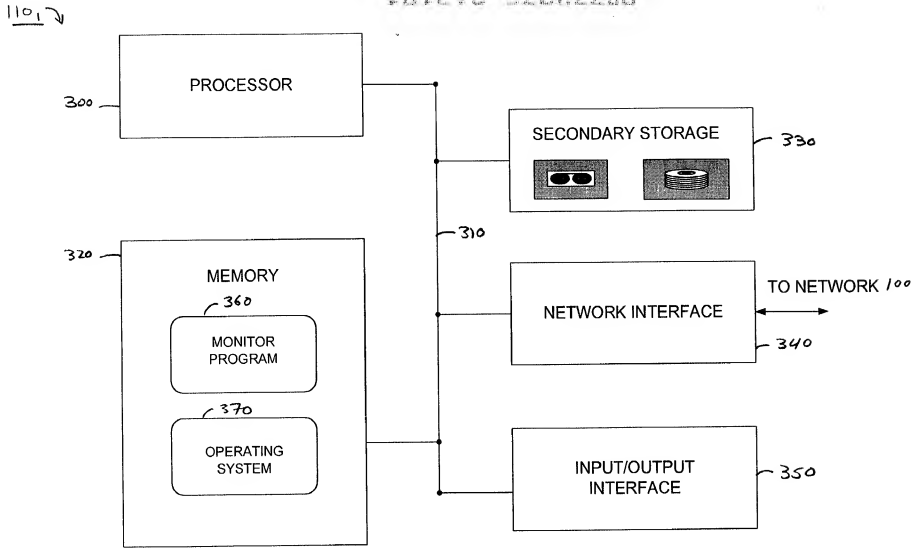

FIGURE 3

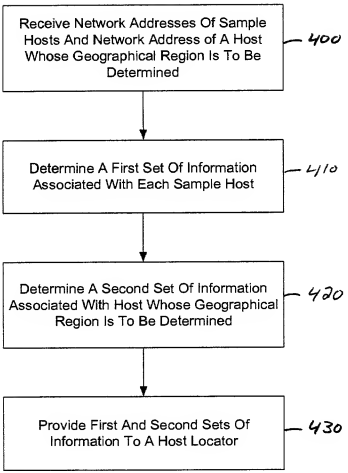
Receive Network Addresses Of Sample Hosts And Network Address of A Host Whose Geographical Region Is To Be Determined
400
Determine A First Set Of Information Associated With Each Sample Host
410
Determine A Second Set Of Information Associated With Host Whose Geographical Region Is To Be Determined
420
Provide First And Second Sets Of Information To A Host Locator
430

FIGURE 4

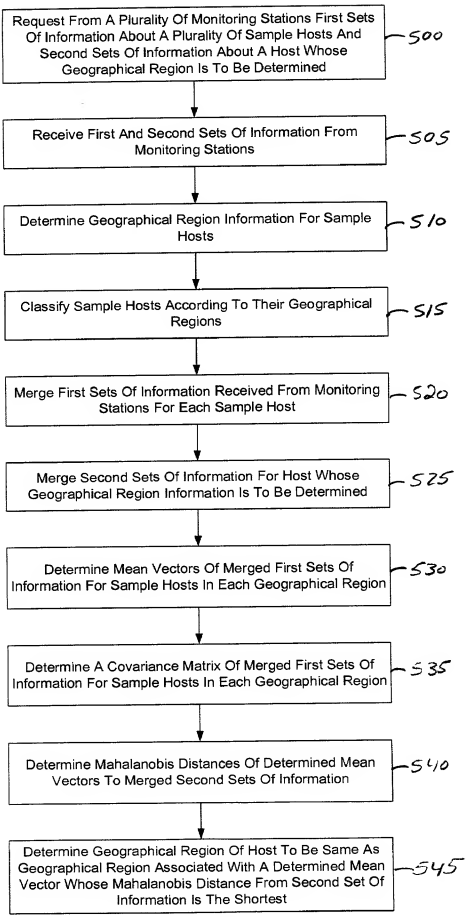
Request From A Plurality Of Monitoring Stations First Sets Of Information About A Plurality Of Sample Hosts And Second Sets Of Information About A Host Whose Geographical Region Is To Be Determined
500
Receive First And Second Sets Of Information From Monitoring Stations
505
Determine Geographical Region Information For Sample Hosts
510
Classify Sample Hosts According To Their Geographical Regions
515
Merge First Sets Of Information Received From Monitoring Stations For Each Sample Host
520
Merge Second Sets Of Information For Host Whose Geographical Region Information Is To Be Determined
525
Determine Mean Vectors Of Merged First Sets Of Information For Sample Hosts In Each Geographical Region
530
Determine A Covariance Matrix Of Merged First Sets Of Information For Sample Hosts In Each Geographical Region
535
Determine Mahalanobis Distances Of Determined Mean Vectors To Merged Second Sets Of Information
540
Determine Geographical Region Of Host To Be Same As Geographical Region Associated With A Determined Mean Vector Whose Mahalanobis Distance From Second Set Of Information Is The Shortest
545

FIGURE 5